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38; passengers from this port, none; passengers in transit, none; pieces of baggage disinfected, none. July 12, steamship *Hispania*; crew, 22; passengers from this port, none; passengers in transit, none; pieces of baggage, disinfected, none. July 13, steamship *Harald*; crew, 19; passengers from this port, none; passengers in transit, none; pieces of baggage disinfected, none.

Respectfully,

D. W. GOODMAN,

Acting Assistant Surgeon, U. S. M. H. S.

The SURGEON-GENERAL,

U. S. Marine-Hospital Service.

PORT LIMON, COSTA RICA, *July 21, 1901.*

SIR: I have to make the following report of the conditions and transactions at this port during the week ended July 21, 1901:

Present estimated population, 4,000; number of cases and deaths from yellow fever during the week, 1 case and no deaths; number of cases and deaths from smallpox during the week, none; number of cases and deaths from typhus fever during the week, none; number of cases and deaths from cholera during the week, none; number of cases and deaths from plague during the week, none; number of deaths from other causes during the week, 4; prevailing diseases, malaria in its varied manifestations. General sanitary condition of this port and the surrounding country during the week: One new case yellow fever in the person of a sister of the case reported July 4; she lived in the house in which that patient spent the first two days of his illness, prior to being removed to and isolated in the hospital. She was taken sick July 17, the eighteenth day from the initial symptoms of the former patient. Removed to hospital July 18, there isolated and now doing well.

Bills of health were issued to the following vessels: July 16, steamship *Athos*; crew, 38; passengers from this port, 7; passengers in transit, 2; pieces of baggage disinfected, none. July 17, steamship *Origen*; crew, 23; passengers from this port, none; passengers in transit, none; pieces of baggage disinfected, none. July 18, steamship *Beverly*; crew, 38; passengers from this port, none; passengers in transit, none; pieces of baggage disinfected, none. July 19, steamship *Venus*; crew, 28; passengers from this port, none; passengers in transit, none; pieces of baggage disinfected, none; steamship *Foxhall*; crew, 26; passengers from this port, none; passengers in transit, none; pieces of baggage disinfected, none. July 20, steamship *Breakwater*; crew, 37; passengers from this port, none; passengers in transit, none; pieces of baggage disinfected, none.

Respectfully,

D. W. GOODMAN,

Acting Assistant Surgeon, U. S. M. H. S.

The SURGEON-GENERAL,

U. S. Marine-Hospital Service.

Observations on the mosquito as a carrier of yellow fever at Port Limon.

PORT LIMON, COSTA RICA, *July 13, 1901.*

SIR: Pursuant to request made in circular letter of April 23, 1901, relative to taking observations as to methods of the conveyance of yellow fever, I have the honor to report the results of my investigation of the connection between the cases reported by me June 12 and July 4, 1901.

The former in the person of an Englishman, who, for the first day and a half of his illness remained in his dwelling house, and was taken to

the railroad hospital on the second day and was immediately isolated. His residence is on a high hill at the extreme western portion of the town; the railroad hospital is at the extreme eastern portion, about one-half mile distant.

The latter case, an American, had no personal acquaintance with the said Englishman, nor was there any visiting or intercourse between their respective houses. These dwellings are on the same hill less than 200 yards apart, and more or less surrounded by dense foliage and undergrowth.

A summary of the conditions is as follows: A case of yellow fever in a house in and around which mosquitoes are abundant, remains there nearly two days after initial chill; a second case taken sick twenty days subsequent in a house not 200 yards away, and in a like condition of attractiveness to mosquitoes. No history of any communication to person or fomites nor of any previous case in the second dwelling, no other known focus of infection in Port Limon or vicinity.

The wife of the second case did not become infected from the mosquitoes which probably conveyed the poison to her husband, neither has she contracted the disease from nursing and being isolated with him at the hospital for thirteen days, an instance of temporary immunity or nonreceptivity.

Respectfully,

D. W. GOODMAN,

Acting Assistant Surgeon, U. S. M. H. S.

The SURGEON-GENERAL, *U. S. Marine-Hospital Service.*

CUBA.

Reports from Cienfuegos, Casilda, and Santa Cruz del Sur.

CIENFUEGOS, CUBA, *July 15, 1901.*

SIR: Through the chief quarantine officer for the island of Cuba, I have the honor to transmit the following report for the district under my command for the week ended July 13, 1901:

Twenty-three deaths have occurred in this city; of these 5 occurred in the civil hospital. Causes of death are as follows: Pernicious fever, 3; enteritis, 2; sclerosis, arterial, 2; tuberculosis, 2; cachexia, 2; paludism, 1; nephritis, parenchymatous, 1; cancer, 1; abscess of the liver, 1; cholera infantum, 1; enteritis, chronic, 1; hemorrhage, cerebral, 1; embolism, 1; enteritis, acute, 1; remittent fever, 1; meningitis, 1; old age, 1. Death rate per 1,000 inhabitants, 29.98. Six vessels have been inspected and passed at this port, 15 bills of health have been issued to outgoing vessels, and no alien steerage passengers have been landed at this port.

A case of leprosy arrived on steamship *Miguel Gallart*, from Santa Cruz, Canaries; it was refused admission at Havana, was allowed no communication with the shore at this port, and was ordered to be returned to port of embarkation.

Casilda.—Acting Asst. Surg. Alejandro Cantero reports for the week ended July 5, 1901, 11 deaths in the city of Trinidad. No contagious diseases. Nine vessels inspected and passed during week.

Santa Cruz del Sur.—Acting Asst. Surg. Juan R. Xiques reports 1 death in that port during week ended July 12, 1901, and no contagious diseases and 4 vessels inspected and passed.

Respectfully,

EDWARD F. NUNEZ,

Acting Assistant Surgeon, U. S. M. H. S.,

In Temporary Charge.

The SURGEON-GENERAL, *U. S. Marine Hospital Service.*